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| Typed or Printed Name                                                                                                                                                                                                                                                                   | <u>MARGARET D. PIERCE</u> | Express Mail No.     | EL 563 388 364 US                                            |
| Signature                                                                                                                                                                                                                                                                               | <u>M. Pierce</u>          | Date                 | January 25, 2001                                             |
|                                                                                                                                                                                                                                                                                         |                           | Attorney Docket      | 6510-173CON                                                  |
|                                                                                                                                                                                                                                                                                         |                           | First Named Inventor | Raz et al. #6/                                               |
|                                                                                                                                                                                                                                                                                         |                           | Application Number   | Not Available                                                |
|                                                                                                                                                                                                                                                                                         |                           | Filing Date          | Herewith /I.D.S.                                             |
|                                                                                                                                                                                                                                                                                         |                           | Group Art Unit       | Unassigned                                                   |
|                                                                                                                                                                                                                                                                                         |                           | Examiner Name        | Unassigned                                                   |
|                                                                                                                                                                                                                                                                                         |                           | Title                | <i>Inhibitors of DNA Immunostimulatory Sequence Activity</i> |

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09/77/0943

## INFORMATION DISCLOSURE STATEMENT

Address to:  
Commissioner for Patents  
Washington, D.C. 20231

Sir:

This is an Information Disclosure Statement submitted for the Examiner's consideration. A Form PTO-1449 listing the references and copies of the cited references accompany this paper. Applicants would appreciate the Examiner's initialing and returning the form to indicate that the references have been reviewed and made of record.

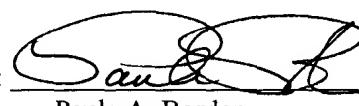
All of the references identified herein were disclosed in parent application Serial No. 09/092,314 (filed June 5, 1998) and, as such, copies thereof are not included pursuant to the provisions of 37 C.F.R. §1.98(d), except as noted below.

This Information Disclosure Statement is not intended as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that any one of the above references constitutes prior art to the present application within the meaning of 35 U.S.C. §102.

As applicants have not yet received a first Action on the merits, no fee is believed to be required for filing this Disclosure Statement. If, however, the PTO finds that for some reason a fee is due, our Deposit Account No. 50-0815 may be charged therefor.

Respectfully submitted,  
BOZICEVIC, FIELD & FRANCIS LLP

Date: Jan. 25, 2001

By:   
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Registration No. 42,344

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| <b>INFORMATION DISCLOSURE CITATION</b><br><b>(000125100000/ QPKKFT</b><br><i>(Use several sheets if necessary)</i> |  | <b>ATTY. DOCKET NO.</b><br>6510-173CON | <b>SERIAL NO.</b><br>Not Available |
|                                                                                                                    |  | <b>APPLICANT</b><br>Raz et al.         |                                    |
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**U.S. PATENT DOCUMENTS**

| Examiner Initial |    | Document Number | Date           | Name             | Class | Subclass | Filing Date If Appropriate |
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|                  | AA | 1,234,718       | Filed 90/15/69 | Hilleman et al.  |       |          |                            |
|                  | AB | 3,725,545       | 04/03/73       | Maes             |       |          |                            |
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|                  | AF | 5,278,302       | 01/11/94       | Caruthers et al. |       |          |                            |
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|--|----|-----------------|----------|---------|-------|----------|-------------|
|  | AL | 0 173 254       | 08/22/85 | Europe  |       |          | Yes No      |
|  | AM | 0 330 227       | 02/24/89 | Europe  |       |          |             |
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|  | AO | WO 91/03251     | 03/21/91 | PCT     |       |          |             |
|  | AP | WO 95/26204     | 10/05/95 | PCT     |       |          |             |
|  | AQ | WO96/02555      | 02/01/96 | PCT     |       |          |             |
|  | AR | WO 98/10066     | 03/12/98 | PCT     |       |          |             |
|  | AS | WO98/18810      | 05/07/98 | PCT     |       |          |             |

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| <b>INFORMATION DISCLOSURE CITATION</b><br>(Q1Q1261H111H/ QPKKPI<br><i>(Use several sheets if necessary)</i>                                                                                                                              |                                                                                                                                                                                                                                                        |          |     | ATTY. DOCKET NO.<br>6510-173CON | SERIAL NO.<br>Not Available |  |  |
|                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                        |          |     | APPLICANT<br>Raz et al.         |                             |  |  |
|                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                        |          |     | FILING DATE<br>Herewith         | GROUP<br>Not Available      |  |  |
| AT                                                                                                                                                                                                                                       | WO98/37919                                                                                                                                                                                                                                             | 09/03/98 | PCT |                                 |                             |  |  |
| AU                                                                                                                                                                                                                                       | WO98/40100                                                                                                                                                                                                                                             | 09/17/98 | PCT |                                 |                             |  |  |
| AV                                                                                                                                                                                                                                       | WO98/52581                                                                                                                                                                                                                                             | 11/26/98 | PCT |                                 |                             |  |  |
| AW                                                                                                                                                                                                                                       | WO 98/53075                                                                                                                                                                                                                                            | 11/26/98 | PCT |                                 |                             |  |  |
| <b>OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)</b>                                                                                                                                                                  |                                                                                                                                                                                                                                                        |          |     |                                 |                             |  |  |
| AX                                                                                                                                                                                                                                       | Ballas et al. (1996) "Induction of NK Activity in murine and human cells by CpG Motifs in oligodeoxynucleotides and Bacterial DNA" <i>The American Association of Immunologists</i>                                                                    |          |     |                                 |                             |  |  |
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| BA                                                                                                                                                                                                                                       | Branda et al. (1996) "Amplification of antibody production by phosphorothioate oligodeoxynucleotides" Mosby-Year Book, Inc.                                                                                                                            |          |     |                                 |                             |  |  |
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| BD                                                                                                                                                                                                                                       | Davis et al. "Plasmid DNA is superior to viral vectors for direct gene transfer into adult mouse skeletal muscle." <i>Human Gene Therapy</i> , Vol. 4:733-740.                                                                                         |          |     |                                 |                             |  |  |
| BE                                                                                                                                                                                                                                       | Ewel et al. (1992) "Polyinosinic-Polycytidylic Acid complexed with Poly-L-lysine and carboxymethylcellulose in combination with interleukin 2 in patients with cancer: Clinical and immunological effects." <i>Cancer Research</i>                     |          |     |                                 |                             |  |  |
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| EXAMINER                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                        |          |     | DATE CONSIDERED                 |                             |  |  |
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|                                                                                                      |                                                                                                                                                                                                                                                         |  | APPLICANT                       |                             |
|                                                                                                      |                                                                                                                                                                                                                                                         |  | Raz et al.                      |                             |
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| BN                                                                                                   | Kimura et al. (1994) "Binding of oligoguanylate to scavenger receptors is required for oligonucleotides to augment NK cell activity and induce IFN." <i>Science</i> , Vol. 116                                                                          |  |                                 |                             |
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| BQ                                                                                                   | Krieg et al. (1995) "CpG Motifs in bacterial DNA trigger direct B-cell activation." <i>Nature International Weekly Journal of Science</i> , Vol. 6522.                                                                                                  |  |                                 |                             |
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| BT                                                                                                   | Lee et al. (1996) "Inhibition of IgE Antibody formation by Plasmid DNA immunization is Mediated by Both CD4+ and CD8+ T Cells." <i>Int'l Archives of Allergy and Immunology</i> , Vol. 113(1-3):227-30                                                  |  |                                 |                             |
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| CD                                                                                                   | Pisetsky et al. "Immunological Properties of Bacterial DNA." <i>Annals New York Academy of Sciences</i> , pg 152-163                                                                                                                                    |  |                                 |                             |
| CE                                                                                                   | Ramsay et al. (1994) "Enhancement of Mucosal IgA Responses by Interleukin 5 and 6 Encoded in recombinant vaccine vectors." <i>Reproduction, Fertility and Development</i>                                                                               |  |                                 |                             |
| CF                                                                                                   | Raz et al. (1996) "Preferential induction of a Th1 immune response and inhibition of specific IgE antibody formation by plasmid DNA immunization." <i>Proceedings of the National Academy of Sciences of the United States of America</i> , Vol. 93(10) |  |                                 |                             |
| CG                                                                                                   | Raz et al. (1996) "Cytokines and Inflammatory Mediators." XP-002058356                                                                                                                                                                                  |  |                                 |                             |

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| <b>INFORMATION DISCLOSURE CITATION</b><br>(QD126100000/ QPKGFI<br><i>(Use several sheets if necessary)</i> |                                                                                                                                                                                                                                                           | ATTY. DOCKET NO.<br>6510-173CON | SERIAL NO.<br>Not Available |
|                                                                                                            |                                                                                                                                                                                                                                                           | APPLICANT                       | Raz et al.                  |
|                                                                                                            |                                                                                                                                                                                                                                                           | FILING DATE<br>Herewith         | GROUP<br>Not Available      |
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| CR                                                                                                         | Terr <u>Allergy Desensitization</u> , Chapter 56:739-743                                                                                                                                                                                                  |                                 |                             |
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| CW                                                                                                         | Yamamoto (1994) "Commemorative lecture of receiving Imamura Memorial Prize. II. Mode of action of oligonucleotide fraction extracted from <i>Mycobacterium bovis BCG</i> " <i>Kekkaku (Japan)</i> , Vol. 69(9):571-4.                                     |                                 |                             |
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| CZ                                                                                                         | Yamamoto (1994) "Lipofection of synthetic oligodeoxyribonucleotide having a palindromic sequence of AACGTT to Murine Splenocytes enhances interferon production and natural killer activity." <i>Microbiol. Immuno.</i> , Vol. 38(10)                     |                                 |                             |

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|                                                                                                            | DA | Zhao et al. (1993) "Comparison of cellular binding and uptake of antisense phosphodiester, phosphothioate, and mixed phosphorothioate and methylphosphonate oligonucleotides." <i>Antisense Research and development</i> , Vol. 3 |                             |
|                                                                                                            | DB | Meeting Report, "International Meeting on the Nucleic Acid Vaccine for the prevention of Infectious Disease and Regulating Nucleic Acid (DNA) Vaccines." <i>Natcher Conference Center NIH</i>                                     |                             |
|                                                                                                            | DC | Multi-Test Directions for Use, New York 11050                                                                                                                                                                                     |                             |
|                                                                                                            | DD | (September 30, 1993) <i>Biochemical and Biophysical Research Communication</i> , Academic Press, Inc.                                                                                                                             |                             |

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